Applicant: Jei-Fu Shaw et al. Attorney's Docket No.: 08919-099001 / 09A-910930

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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

- 1-5. (Cancelled).
- 6. (Currently amended) An isolated nucleic acid comprising a sequence that encodes the polypeptide of claim-1 a polypeptide, wherein the polypeptide contains an amino acid sequence at least 70% identical to SEQ ID NO: 9 and has activity of increasing the sensitivity of a plant to an environmental factor.
- 7. (Currently amended) An isolated nucleic acid that, under a high stringency condition, hybridizes to a probe containing a sequence selected from the group consisting of SEQ ID NOs: 12-22 of SEQ ID NO: 20; or [[a]] the complement thereof, wherein the nucleic acid encodes a polypeptide that has activity of increasing the sensitivity of a plant to an environmental factor.
- 8. (Currently amended) A vector comprising a nucleotide the isolated nucleic acid of claim 6.
- 9. (Currently amended) A vector comprising a nucleotide the isolated nucleic acid of claim 7.
- 10. (Currently amended) A host cell comprising a nucleotide the isolated nucleic acid of claim 6.

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11. (Currently amended) A host cell comprising a nucleotide the isolated nucleic acid of claim 7.

- 12. (Original) The host cell of claim 10, wherein the host cell is an E. coli, a yeast, an insect, a plant, or a mammalian cell.
- 13. (Original) The host cell of claim 11, wherein the host cell is an E. coli, a yeast, an insect, a plant, or a mammalian cell.
- 14. (Original) A method of producing a polypeptide, the method comprising culturing the host cell of claim 10 in a medium under conditions permitting expression of the polypeptide, and

isolating the polypeptide.

15. (Original) A method of producing a polypeptide, the method comprising culturing the host cell of claim 11 in a medium under conditions permitting expression of the polypeptide, and

isolating the polypeptide.

- 16. (Withdrawn) A transformed plant cell that lacks a polypeptide containing a sequence of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or 11, wherein, compared with the wild type cell, the transformed plant cell has a higher tolerance to salt, chilling, pathogens, oxidative stress, or water-deficit due to absence of expression of the polypeptide.
  - 17. (Withdrawn) The plant cell of claim 16, wherein the cell is an Arabidopsis cell.
  - 18. (Cancelled).
  - 19. (Cancelled).

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20. (Withdrawn) A method of producing a transformed plant cell, the method comprising introducing into a plant cell a nucleic acid that decreases the expression of a gene encoding a polypeptide of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or 11, wherein, compared with the wild type cell, the transformed plant cell has a higher tolerance to salt, chilling, pathogens, oxidative stress, or water-deficit due to absence of the polypeptide.

## 21. (Cancelled).

- 22. (Currently amended) A transformed plant cell comprising a recombinant nucleic acid that encodes [[a]] the heterologous polypeptide of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or 11.
- 23. (Currently amended) A transgenic plant comprising a recombinant nucleic acid that encodes [[a]] the heterologous polypeptide of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or 11.
- 24. (Currently amended) A method of producing a transformed plant cell, the method comprising:

introducing into a plant cell a recombinant nucleic acid encoding [[a]] the heterologous polypeptide of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or 11, and expressing the polypeptide in the cell.

25. (Currently amended) A method of producing a transgenic plant, the method comprising:

introducing into a plant cell a recombinant nucleic acid encoding [[a]] the heterologous polypeptide of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, or 11,

expressing the polypeptide in the cell, and cultivating the cell to generate regenerate a plant.

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26. (New) A transformed plant cell comprising a heterologous sequence containing the recombinant nucleic acid of claim 6.

- 27. (New) A transgenic plant comprising a heterologous sequence containing the recombinant nucleic acid of claim 7.
- 28. (New) A method of producing a transformed plant cell, the method comprising: introducing into a plant cell a heterologous sequence containing the nucleic acid of claim 6, and

expressing the polypeptide in the cell.

29. (New) A method of producing a transgenic plant, the method comprising: introducing into a plant cell a heterologous sequence containing the nucleic acid of claim 7, and

cultivating the cell to regenerate a plant.

- 30. (New) The isolated nucleic acid of claim 6, wherein the amino acid sequence is at least 80% identical to SEQ ID NO: 9.
- 31. (New) The isolated nucleic acid of claim 30, wherein the amino acid sequence is at least 90% identical to SEQ ID NO: 9.
- 32. (New) The isolated nucleic acid of claim 31, wherein the amino acid sequence is at least 95% identical to SEQ ID NO: 9.
- 33 (New) The isolated nucleic acid of claim 32, wherein the amino acid sequence is SEQ ID NO: 9.